

COMPLETE CONSERVATION FOR YOUR FARM

RESOURCE MANAGEMENT SYSTEMS





SOLVING YOUR CONSERVATION PROBLEMS

This book is intended to help you solve natural resource problems using a package of conservation practices and concepts. It is meant to help you look at all the resources on your land, with the goal of developing a complete conservation plan and a resource management system for your farm. The conservation system will be designed to protect all the resources on your farm—soil, water, air, plants and animals. This booklet should give you the basics—additional technical help is available from your local Natural Resources Conservation Service office at your USDA Service Center.

The goal of many landowners is to take care of their land, so as to leave it better than they found it.

CONSERVATION MEASURES WORK BEST TOGETHER IN SYSTEMS

A single conservation practice may solve a problem, but conservation practices work best together—in a **resource management system**. The benefits of conservation practices are generally additive— for instance, small gullies can usually be stopped with grassed waterways or small structures (see pages 6-7). But the chosen practice will last longer and be more effective if the drainage area above the gully is managed to absorb more rainfall and reduce runoff. Or, cropland protected by contouring is even better protected if crop residues, or mulches, are left on the soil surface or if rowcrops are rotated with small grain, grass or legumes. This kind of farming promotes better soil and water quality as well as wildlife habitat. The use of several practices to solve multiple problems is called the “systems approach” to conservation. Ask your local conservationist for help in designing a complete conservation system for your land.



Technical help from the NRCS to plan and install conservation measures is free.



conservation improvements

Improving pastures, cropland and woodland are among conservation improvements you may consider for their land.



Roger Hill

Meeting the needs of fish and wildlife is one of a number of considerations in planning complete conservation systems on privately owned land.

TABLE OF CONTENTS

CONTENTS

PAGE NUMBER

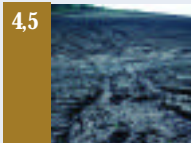
CONSERVATION SYSTEMS

2

TABLE OF CONTENTS

3

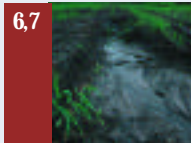
4,5



SLOWING SHEET & RILL EROSION

Residue management
Contouring
Stripcropping/rotation
Grass/tree planting
Contour buffer strips
Cover crops
Terraces

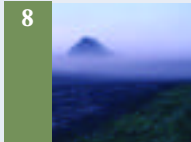
6,7



STOPPING GULLIES

Chutes
Drop structures
Pipe structures
Farm pond
Grassed waterways

8



REDUCING IMPACTS OF THE WIND

Crop residue
Cover crops
Windbreaks/Shelterbelts
Vegetative wind barriers

9



IMPROVING SOIL QUALITY

Manage organic matter
Land capability
Maintain chemical balances
Conserve topsoil

10,11



MANAGING NUTRIENTS / PESTS

Nutrient management basics
Pest management basics
Manure management

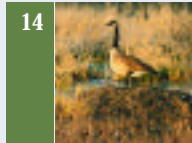
12,13



IMPROVING WATER QUALITY

Remember the basics
Wetlands
Stabilizing streambanks

14



MANAGING FOR WILDLIFE

Food, cover and water
Tips for more wildlife

15



MANAGING GRAZING LAND

Balance needs
Forage
Water supply
Fences
Soil fertility

16



MANAGING WOODLANDS

Managing woodlands
Woodland improvement
Tree planting

17



MANAGING THE FARMSTEAD

Pesticide storage
Manure stacking
Composting
Gutters and downspouts
Heavy use protection
Diversions

18



MAKING A PLAN

Consider total effects
Problems, goals and solutions
Where to start
Planning fundamentals

FOR MORE HELP

19

